

Supporting Information

Self-sustaining, Fluorescent, Semi-conducting Co-assembled Organogel of Fmoc Protected Phenylalanine with Aromatic Amines

Partha Bairi, Bappaditya Roy, Parimal Routh, Kaushik Sen and Arun K. Nandi*

Polymer Science Unit,
Indian Association for the cultivation of Science,
Jadavpur, Kolkata-700 032, INDIA

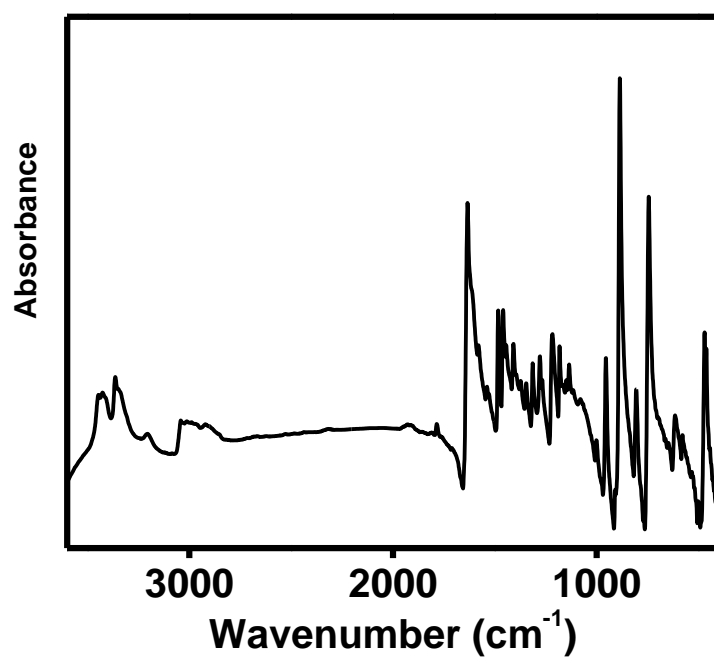
* For correspondence: email psuakn@mahendra.iacs.res.in

SI.Table: 1 Dynamic rheology of F, FAA and FNA gels. The G' and G'' values shown in the table are obtained from frequency sweep experiments and σ^* is obtained from oscillator stress experiment.

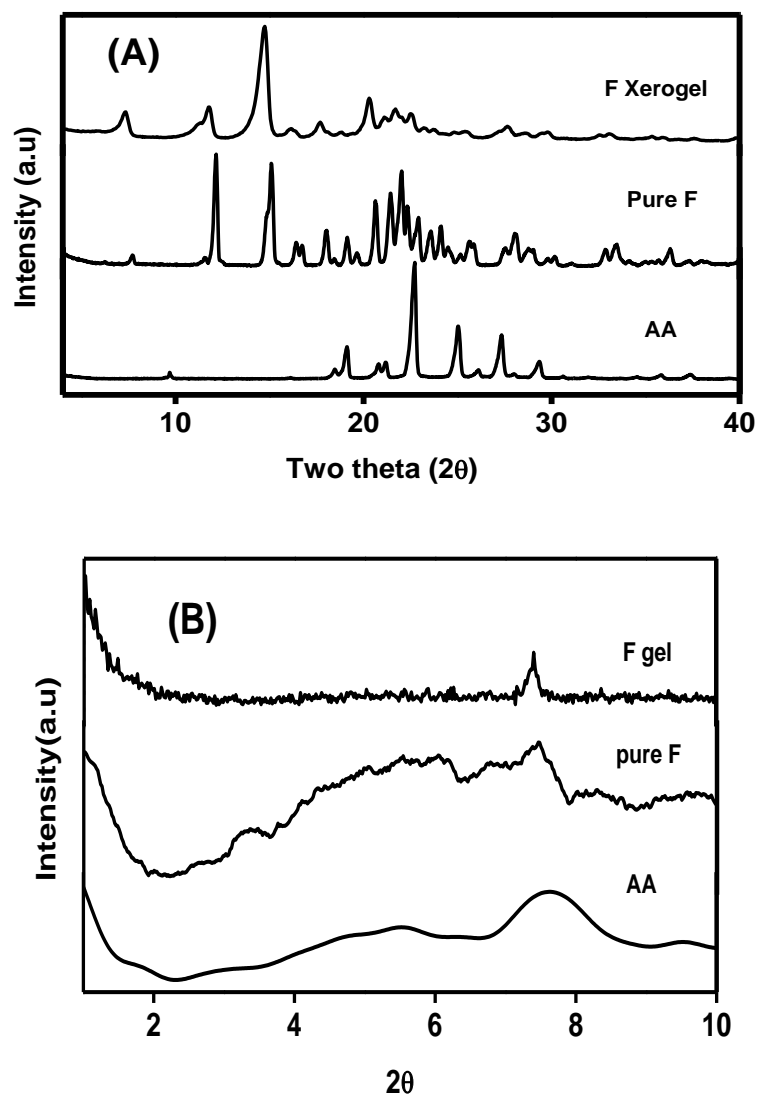
Sample	G' Pa	G'' Pa	$G'-G''$	G'/G''	σ^* Pa
F gel	882	291	591	3.0	4
F-AA gel	82660	11470	71190	7.2	160
F-NA gel	1478	841	636	1.7	7.5



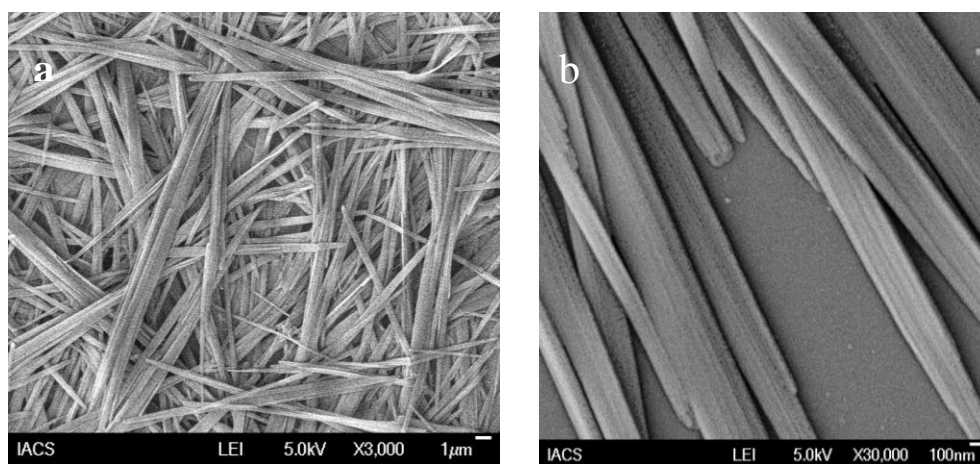
SI Fig-1: Photograph of F-NA organogel



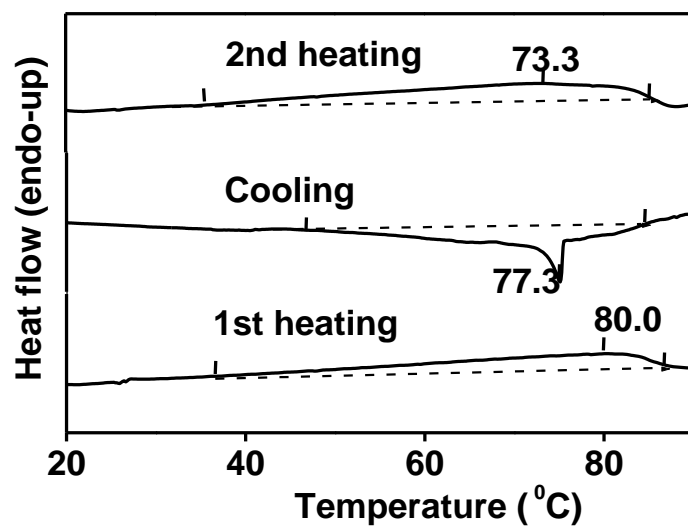
SI fig-2: FTIR spectra of pure AA



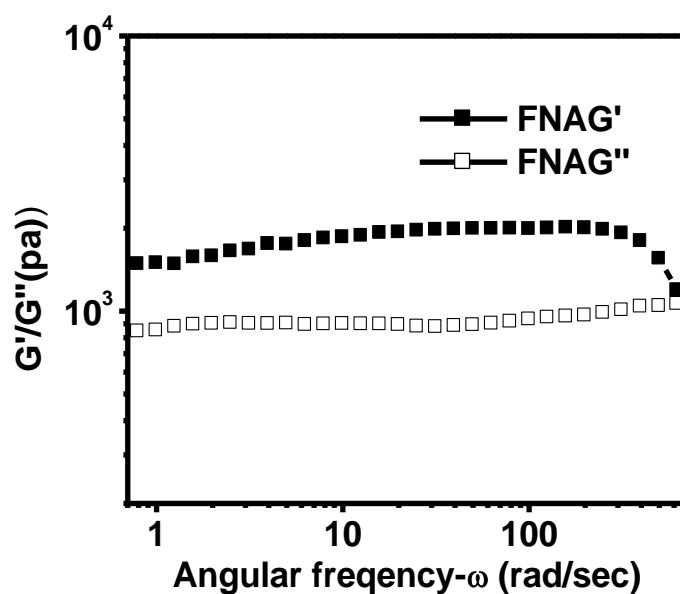
SI fig-3: (A) WAXS pattern of pure AA, pure F and F xerogel. (B) Comparison of SAXS diffraction pattern of F xerogel with those of pure F and AA.



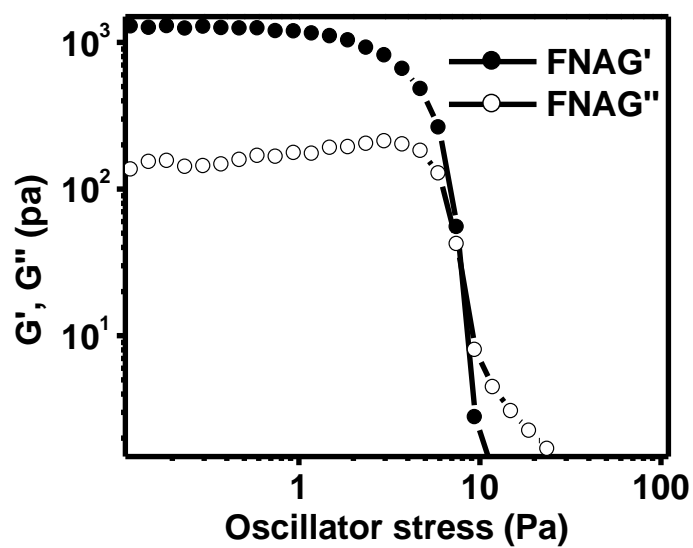
SI Fig-4: FESEM images of F-NA xerogels 1.5% (w/v) at different magnifications.



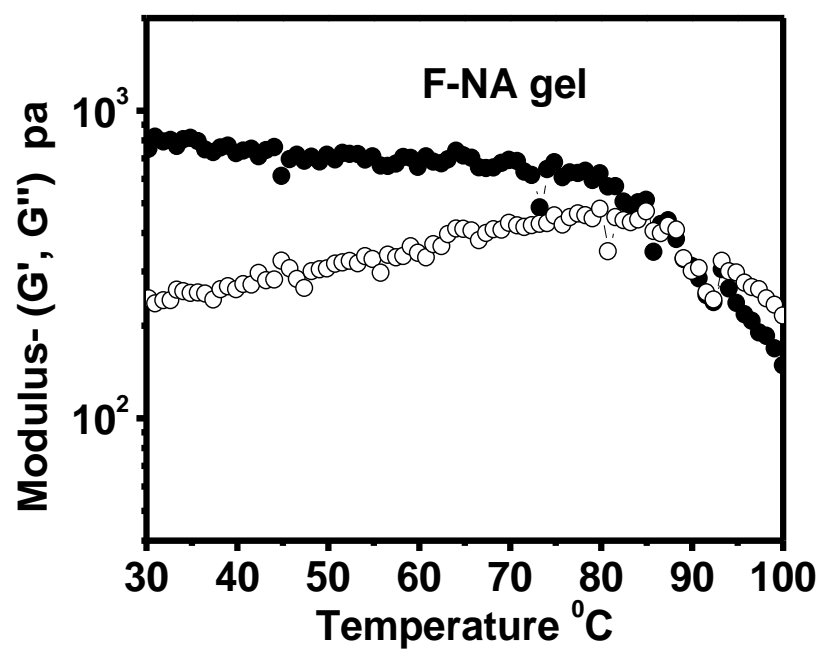
SI fig-5 DSC thermogram of F organogel concentration at 1.5% (w/v)



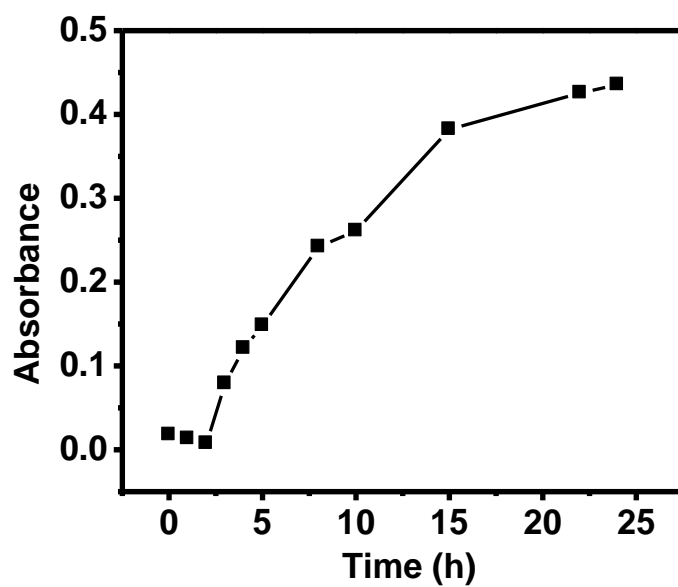
SI Fig-6a Storage modulus (G') and Loss modulus (G'') vs angular frequency plot at a concentration of 1.5 % (w/v) of F-NA



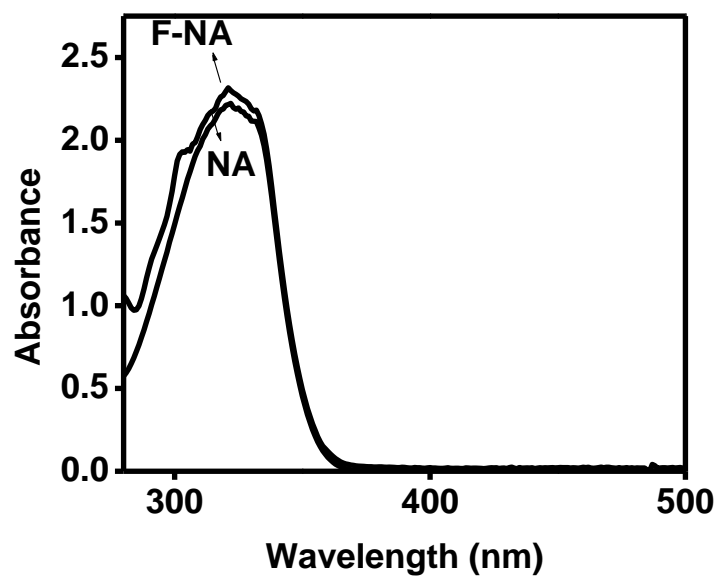
SI Fig-6b G' and G'' vs. oscillator stress plot at a constant frequency of 1Hz of the F-NA organogels at a concentration of 1.5 % (w/v) at 30°C.



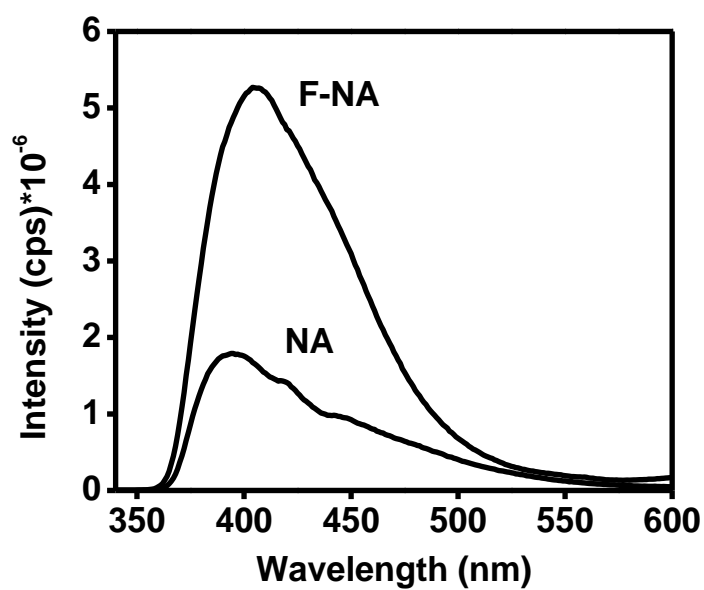
SI fig 6c G' and G'' vs. temperature plot at a constant frequency of 1Hz of the F-NA organogel at a concentration of 1.5 % (w/v).



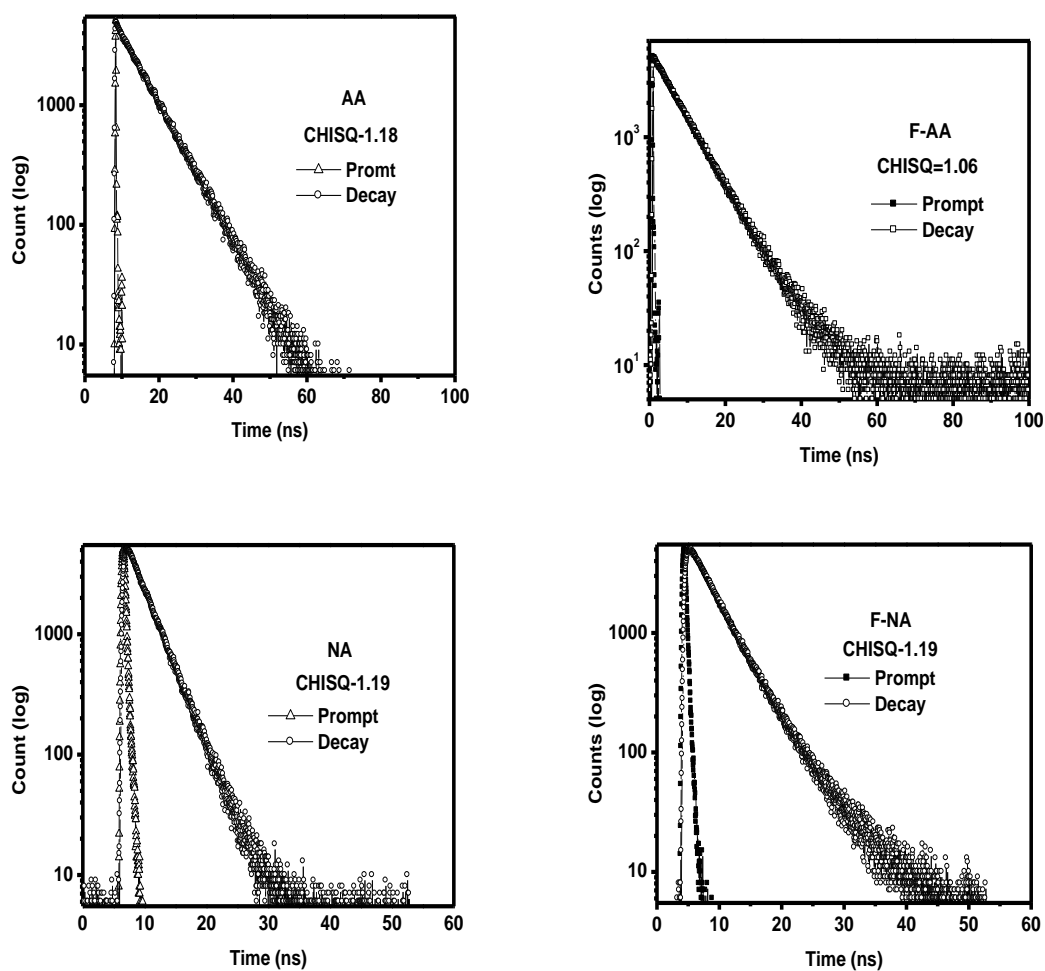
SI fig 7 Absorbance vs time plot of F-AA complex at concentration 1.5% (w/v).



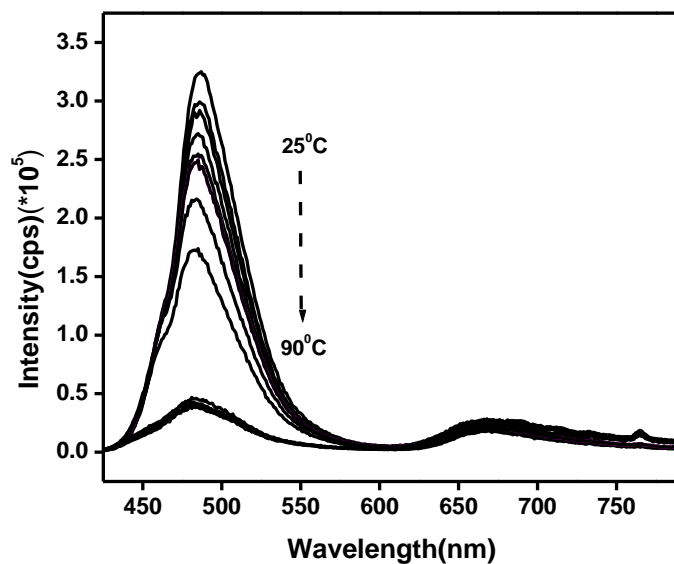
SI fig 8 UV-vis spectra of F-NA complex and pure NA in toluene medium at 0.2 % (w/v) NA concentration.



SI fig 9 Photoluminescence spectra of pure NA and F-NA organogel at 1.5% (w/v) excited at 320nm.



SI fig 10 Fluorescence decay curves of pure AA, NA and Co-assembled gel F-AA, F-NA.



SI-Fig.11 Temperature dependent photoluminescence spectra of F-AA organogel at 1.5% (w/v) excited at 405nm.